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Leu Leu Thr Val His Lys Ser Ala Lys Glu His His Val Cys Ala Asp
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Gly Trp Arg Glu Thr Leu Ser Gln Leu Ala Cys Lys Gln Met Gly Leu
785             790             795             800
Gly Glu Pro Ser Val Thr Lys Leu Ile Pro Gly Gln Glu Gly Gln Gln
            805             810             815
Trp Leu Arg Leu Tyr Pro Asn Trp Glu Asn Leu Asn Gly Ser Thr Leu
            820             825             830
Gln Glu Leu Leu Val Tyr Arg His Ser Cys Pro Ser Arg Ser Glu Ile
            835             840             845
Ser Leu Leu Cys Ser Lys Gln Asp Cys Gly Arg Arg Pro Ala Ala Arg
    850             855             860
Met Asn Lys Arg Ile Leu Gly Gly Arg Thr Ser Arg Pro Gly Arg Trp
865             870             875             880
Pro Trp Gln Cys Ser Leu Gln Ser Glu Pro Ser Gly His Ile Cys Gly
            885             890             895
Cys Val Leu Ile Ala Lys Lys Trp Val Leu Thr Val Ala His Cys Phe
            900             905             910
Glu Gly Arg Glu Asp Ala Asp Val Trp Lys Val Val Phe Gly Ile Asn
            915             920             925
Asn Leu Asp His Pro Ser Gly Phe Met Gln Thr Arg Phe Val Lys Thr
    930             935             940
Ile Leu Leu His Pro Arg Tyr Ser Arg Ala Val Val Asp Tyr Asp Ile
945             950             955             960
Ser Val Val Glu Leu Ser Asp Asp Ile Asn Glu Thr Ser Tyr Val Arg
            965             970             975
Pro Val Cys Leu Pro Ser Pro Glu Glu Tyr Leu Glu Pro Asp Thr Tyr
            980             985             990
Cys Tyr Ile Thr Gly Trp Gly His Met Gly Asn Lys Met Pro Phe Lys
    995             1000            1005
Leu Gln Glu Gly Glu Val Arg Ile Ile Pro Leu Glu Gln Cys Gln Ser
    1010            1015            1020
Tyr Phe Asp Met Lys Thr Ile Thr Asn Arg Met Ile Cys Ala Gly Tyr
1025            1030            1035            1040
Glu Ser Gly Thr Val Asp Ser Cys Met Gly Asp Ser Gly Gly Pro Leu
            1045            1050            1055
Val Cys Glu Arg Pro Gly Gly Gln Trp Thr Leu Phe Gly Leu Thr Ser
            1060            1065            1070
Trp Gly Ser Val Cys Phe Ser Lys Val Leu Gly Pro Gly Val Tyr Ser
            1075            1080            1085
Asn Val Ser Tyr Phe Val Gly Trp Ile Glu Arg Gln Ile Tyr Ile Gln
    1090            1095            1100
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6

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Thr Phe Leu Gln Lys Lys Ser Gln Gly
1105            1110


<210> 4
<211> 1848
<212> PRT
<213> Homo sapiens

<400> 4
Met Arg Arg Gln Trp Gly Ala Leu Leu Leu Gly Ala Leu Leu Cys Ala
  1           5               10              15
His Val Leu Pro Thr Cys Ser Pro Leu Asp Phe His Cys Asp Asn Gly
            20              25              30
Lys Cys Ile Arg Arg Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Glu
            35              40              45
Asp Asp Ser Asp Glu Gln Asp Cys Pro Pro Arg Glu Cys Glu Glu Asp
    50              55              60
Glu Phe Pro Cys Gln Asn Gly Tyr Cys Ile Arg Ser Leu Trp His Cys
65              70              75                          80
Asp Gly Asp Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Cys Asp Met
            85              90              95
Arg Lys Cys Ser Asp Lys Glu Phe Arg Cys Ser Asp Gly Ser Cys Ile
            100             105             110
Ala Glu His Trp Tyr Cys Asp Gly Asp Thr Asp Cys Lys Asp Gly Ser
            115             120             125
Asp Glu Glu Asn Cys Pro Ser Ala Val Pro Ala Pro Pro Cys Asn Leu
    130             135             140
Glu Glu Phe Gln Cys Ala Tyr Gly Arg Cys Ile Leu Asp Ile Tyr His
145             150             155                         160
Cys Asp Gly Asp Asp Asp Cys Gly Asp Trp Ser Asp Glu Ser Asp Cys
            165             170             175
Cys Glu Tyr Ser Gly Gln Leu Gly Ala Ser His Gln Pro Cys Arg Ser
            180             185             190
Gly Glu Phe Met Cys Asp Ser Gly Leu Cys Ile Asn Ala Gly Trp Arg
            195             200             205
Cys Asp Gly Asp Ala Asp Cys Asp Asp Gln Ser Asp Glu Arg Asn Cys
    210             215             220
Lys Gln Phe Arg Cys His Ser Gly Arg Cys Val Arg Leu Ser Trp Arg
225             230             235                         240
Cys Asp Gly Glu Asp Asp Cys Ala Asp Asn Ser Asp Glu Glu Asn Cys
            245             250             255
Glu Asn Thr Gly Ser Pro Gln Cys Ala Leu Asp Gln Phe Leu Cys Trp
            260             265             270
Asn Gly Arg Cys Ile Gly Gln Arg Lys Leu Cys Asn Gly Val Asn Asp
            275             280             285
Cys Gly Asp Asn Ser Asp Glu Ser Pro Gln Gln Asn Cys Arg Pro Arg
    290             295             300
Thr Gly Glu Glu Asn Cys Asn Val Asn Asn Gly Gly Cys Ala Gln Lys
305             ·       310             315                 320
Cys Gln Met Val Arg Gly Ala Val Gln Cys Thr Cys His Thr Gly Tyr
            325             330             335
Arg Leu Thr Glu Asp Gly His Thr Cys Gln Asp Val Asn Glu Cys Ala
            340             345             350
Glu Glu Gly Tyr Cys Ser Gln Gly Cys Thr Asn Ser Glu Gly Ala Phe
            355             360             365
Gln Cys Trp Cys Glu Thr Gly Tyr Glu Leu Arg Pro Asp Arg Arg Ser
    370             375             380
Cys Lys Ala Leu Gly Pro Glu Pro Val Leu Leu Phe Ala Asn Arg Ile
385             390             395                         400
Asp Ile Arg Gln Val Leu Pro His Arg Ser Glu Tyr Thr Leu Leu Leu


                                   7
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                        405                           410                           415
Asn Asn Leu Glu Asn Ala Ile Ala Leu Asp Phe His His Arg Arg Glu
            420                 425                 430
Leu Val Phe Trp Ser Asp Val Thr Leu Asp Arg Ile Leu Arg Ala Asn
            435                 440                 445
Leu Asn Gly Ser Asn Val Glu Glu Val Val Ser Thr Gly Leu Glu Ser
        450                 455                 460
Pro Gly Gly Leu Ala Val Asp Trp Val His Asp Lys Leu Tyr Trp Thr
465                 470                 475                 480
Asp Ser Gly Thr Ser Arg Ile Glu Val Ala Asn Leu Asp Gly Ala His
                485                 490                 495
Arg Lys Val Leu Leu Trp Gln Asn Leu Glu Lys Pro Arg Ala Ile Ala
            500                 505                 510
Leu His Pro Met Glu Gly Thr Ile Tyr Trp Thr Asp Trp Gly Asn Thr
            515                 520                 525
Pro Arg Ile Glu Ala Ser Ser Met Asp Gly Ser Gly Arg Arg Ile Ile
            530                 535                 540
Ala Asp Thr His Leu Phe Trp Pro Asn Gly Leu Thr Ile Asp Tyr Ala
545                 550                 555                 560
Gly Arg Arg Met Tyr Trp Val Asp Ala Lys His His Val Ile Glu Arg
                565                 570                 575
Ala Asn Leu Asp Gly Ser His Arg Lys Ala Val Ile Ser Gln Val Phe
            580                 585                 590
Glu Asp Ser Leu Tyr Trp Thr Asp Trp His Thr Lys Ser Ile Asn Ser
            595                 600                 605
Ala Asn Lys Phe Thr Gly Lys Asn Gln Glu Ile Ile Arg Asn Lys Leu
        610                 615                 620
His Phe Pro Met Asp Ile His Thr Leu His Pro Gln Arg Gln Pro Ala
625                 630                 635                 640
Gly Lys Asn Arg Cys Gly Asp Asn Asn Gly Gly Cys Thr His Leu Cys
                645                 650                 655
Leu Pro Ser Gly Gln Asn Tyr Thr Cys Ala Cys Pro Thr Gly Phe Arg
            660                 665                 670
Lys Ile Ser Ser His Ala Cys Ala Gln Ser Leu Asp Lys Phe Leu Leu
            675                 680                 685
Phe Ala Arg Arg Met Asp Ile Arg Arg Ile Ser Phe Asp Thr Glu Asp
        690                 695                 700
Leu Ser Asp Asp Val Ile Pro Leu Ala Asp Val Arg Ser Ala Val Ala
705                 710                 715                 720
Leu Asp Trp Asp Ser Arg Asp Asp His Val Tyr Trp Thr Asp Val Ser
            725                 730                 735
Thr Asp Thr Ile Ser Arg Ala Lys Trp Asp Gly Thr Gly Gln Glu Val
            740                 745                 750
Val Val Asp Thr Ser Leu Glu Ser Pro Ala Gly Leu Ala Ile Asp Trp
        755                 760                 765
Val Thr Asn Lys Leu Tyr Trp Thr Asp Ala Gly Thr Asp Arg Ile Glu
    770                 775                 780
Val Ala Asn Thr Asp Gly Ser Met Arg Thr Val Leu Ile Trp Glu Asn
785                 790                 795                 800
Leu Asp Arg Pro Arg Asp Ile Val Val Glu Pro Met Gly Gly Tyr Met
                805                 810                 815
Tyr Trp Thr Asp Trp Gly Ala Ser Pro Lys Ile Glu Arg Ala Gly Met
            820                 825                 830
Asp Ala Ser Gly Arg Gln Val Ile Ile Ser Ser Asn Leu Thr Trp Pro
        835                 840                 845
Asn Gly Leu Ala Ile Asp Tyr Gly Ser Gln Arg Leu Tyr Trp Ala Asp
    850                 855                 860
Ala Gly Met Lys Thr Ile Glu Phe Ala Gly Leu Asp Gly Ser Lys Arg
865                 870                 875                 880
Lys Val Leu Ile Gly Ser Gln Leu Pro His Pro Phe Gly Leu Thr Leu
                885                 890                 895
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8

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Tyr Gly Glu Arg Ile Tyr Trp Thr Asp Trp Gln Thr Lys Ser Ile Gln
        900                     905                 910
Ser Ala Asp Arg Leu Thr Gly Leu Asp Arg Glu Thr Leu Gln Glu Asn
        915                 920                 925
Leu Glu Asn Leu Met Asp Ile His Val Phe His Arg Arg Arg Pro Pro
    930                 935                 940
Val Ser Thr Pro Cys Ala Met Glu Asn Gly Gly Cys Ser His Leu Cys
945                 950                 955                 960
Leu Arg Ser Pro Asn Pro Ser Gly Phe Ser Cys Thr Cys Pro Thr Gly
        965                 970                 975
Ile Asn Leu Leu Ser Asp Gly Lys Thr Cys Ser Pro Gly Met Asn Ser
        980                 985                 990
Phe Leu Ile Phe Ala Arg Arg Ile Asp Ile Arg Met Val Ser Leu Asp
        995                 1000                1005
Ile Pro Tyr Phe Ala Asp Val Val Val Pro Ile Asn Ile Thr Met Lys
    1010                1015                1020
Asn Thr Ile Ala Ile Gly Val Asp Pro Gln Glu Gly Lys Val Tyr Trp
1025                1030                1035                1040
Ser Asp Ser Thr Leu His Arg Ile Ser Arg Ala Asn Leu Asp Gly Ser
            1045                1050                1055
Gln His Glu Asp Ile Ile Thr Thr Gly Leu Gln Thr Thr Asp Gly Leu
        1060                1065                1070
Ala Val Asp Ala Ile Gly Arg Lys Val Tyr Trp Thr Asp Thr Gly Thr
        1075                1080                1085
Asn Arg Ile Glu Val Gly Asn Leu Asp Gly Ser Met Arg Lys Val Leu
    1090                1095                1100
Val Trp Gln Asn Leu Asp Ser Pro Arg Ala Ile Val Leu Tyr His Glu
1105                1110                1115                1120
Met Gly Phe Met Tyr Trp Thr Asp Trp Gly Glu Asn Ala Lys Leu Glu
            1125                1130                1135
Arg Ser Gly Met Asp Gly Ser Asp Arg Ala Val Leu Ile Asn Asn Asn
        1140                1145                1150
Leu Gly Trp Pro Asn Gly Leu Thr Val Asp Lys Ala Ser Ser Gln Leu
        1155                1160                1165
Leu Trp Ala Asp Ala His Thr Glu Arg Ile Glu Ala Ala Asp Leu Asn
    1170                1175                1180
Gly Ala Asn Arg His Thr Leu Val Ser Pro Val Gln His Pro Tyr Gly
1185                1190                1195                1200
Leu Thr Leu Leu Asp Ser Tyr Ile Tyr Trp Thr Asp Trp Gln Thr Arg
            1205                1210                1215
Ser Ile His Arg Ala Asp Lys Gly Thr Gly Ser Asn Val Ile Leu Val
            1220                1225                1230
Arg Ser Asn Leu Pro Gly Leu Met Asp Met Gln Ala Val Asp Arg Ala
        1235                1240                1245
Gln Pro Leu Gly Phe Asn Lys Cys Gly Ser Arg Asn Gly Gly Cys Ser
    1250                1255                1260
His Leu Cys Leu Pro Arg Pro Ser Gly Phe Ser Cys Ala Cys Pro Thr
1265                1270                1275                1280
Gly Ile Gln Leu Lys Gly Asp Gly Lys Thr Cys Asp Pro Ser Pro Glu
            1285                1290                1295
Thr Tyr Leu Leu Phe Ser Ser Arg Gly Ser Ile Arg Arg Ile Ser Leu
        1300                1305                1310
Asp Thr Ser Asp His Thr Asp Val His Val Pro Val Pro Glu Leu Asn
    1315                1320                1325
Asn Val Ile Ser Leu Asp Tyr Asp Ser Val Asp Gly Lys Val Tyr Tyr
    1330                1335                1340
Thr Asp Val Phe Leu Asp Val Ile Arg Arg Ala Asp Leu Asn Gly Ser
1345                1350                1355                1360
Asn Met Glu Thr Val Ile Gly Arg Gly Leu Lys Thr Thr Asp Gly Leu
            1365                1370                1375
Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp Thr Asp Thr Gly Arg
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                1380                    1385                    1390
Asn Thr Ile Glu Ala Ser Arg Leu Asp Gly Ser Cys Arg Lys Val Leu
        1395                    1400                    1405
Ile Asn Asn Ser Leu Asp Glu Pro Arg Ala Ile Ala Val Phe Pro Arg
    1410                    1415                    1420
Lys Gly Tyr Leu Phe Trp Thr Asp Trp Gly His Ile Ala Lys Ile Glu
1425                    1430                    1435                    1440
Arg Ala Asn Leu Asp Gly Ser Glu Arg Lys Val Leu Ile Asn Thr Asp
                1445                    1450                    1455
Leu Gly Trp Pro Asn Gly Leu Thr Leu Asp Tyr Asp Thr Arg Arg Ile
            1460                    1465                    1470
Tyr Trp Val Asp Ala His Leu Asp Arg Ile Glu Ser Ala Asp Leu Asn
        1475                    1480                    1485
Gly Lys Leu Arg Gln Val Leu Val Ser His Val Ser His Pro Phe Ala
    1490                    1495                    1500
Leu Thr Gln Gln Asp Arg Trp Ile Tyr Trp Thr Asp Trp Gln Thr Lys
1505                    1510                    1515                    1520
Ser Ile Gln Arg Val Asp Lys Tyr Ser Gly Arg Asn Lys Glu Thr Val
                1525                    1530                    1535
Leu Ala Asn Val Glu Gly Leu Met Asp Ile Ile Val Val Ser Pro Gln
            1540                    1545                    1550
Arg Gln Thr Gly Thr Asn Ala Cys Gly Val Asn Asn Gly Gly Cys Thr
        1555                    1560                    1565
His Leu Cys Phe Ala Arg Ala Ser Asp Phe Val Cys Ala Cys Pro Asp
    1570                    1575                    1580
Glu Pro Asp Ser Arg Pro Cys Ser Leu Val Pro Gly Leu Val Pro Pro
1585                    1590                    1595                    1600
Ala Pro Arg Ala Thr Gly Met Ser Glu Lys Ser Pro Val Leu Pro Asn
                1605                    1610                    1615
Thr Pro Pro Thr Thr Leu Tyr Ser Ser Thr Thr Arg Thr Arg Thr Ser
            1620                    1625                    1630
Leu Glu Glu Val Glu Gly Arg Cys Ser Glu Arg Asp Ala Arg Leu Gly
        1635                    1640                    1645
Leu Cys Ala Arg Ser Asn Asp Ala Val Pro Ala Ala Pro Gly Glu Gly
    1650                    1655                    1660
Leu His Ile Ser Tyr Ala Ile Gly Gly Leu Leu Ser Ile Leu Leu Ile
1665                    1670                    1675                    1680
Leu Val Val Ile Ala Ala Leu Met Leu Tyr Arg His Lys Lys Ser Lys
                1685                    1690                    1695
Phe Thr Asp Pro Gly Met Gly Asn Leu Thr Tyr Ser Asn Pro Ser Tyr
            1700                    1705                    1710
Arg Thr Ser Thr Gln Glu Val Lys Ile Glu Ala Ile Pro Lys Pro Ala
        1715                    1720                    1725
Met Tyr Asn Gln Leu Cys Tyr Lys Lys Glu Gly Gly Pro Asp His Asn
    1730                    1735                    1740
Tyr Thr Lys Glu Lys Ile Lys Ile Val Glu Gly Ile Cys Leu Leu Ser
1745                    1750                    1755                    1760
Gly Asp Asp Ala Glu Trp Asp Asp Leu Lys Gln Leu Arg Ser Ser Arg
                1765                    1770                    1775
Gly Gly Leu Leu Arg Asp His Val Cys Met Lys Thr Asp Thr Val Ser
            1780                    1785                    1790
Ile Gln Ala Ser Ser Gly Ser Leu Asp Asp Thr Glu Thr Glu Gln Leu
        1795                    1800                    1805
Leu Gln Glu Glu Gln Ser Glu Cys Ser Ser Val His Thr Ala Ala Thr
    1810                    1815                    1820
Pro Glu Arg Arg Gly Ser Leu Pro Asp Thr Gly Trp Lys His Glu Arg
1825                    1830                    1835                    1840
Lys Leu Ser Ser Glu Ser Gln Val
                1845
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<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 5
cagctccaca acctacatca ttccgt                                    26

<210> 6
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 6
acggaatgat gt                                                   12

<210> 7
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 7
gtccatcttc tctctgagac tctggt                                    26

<210> 8
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 8
accagagtct ca                                                   12

<210> 9
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 9
ctgatgggtg tcttctgtga gtgtgt                                    26

<210> 10
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
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<223> An artificially synthesized adaptor sequence.

<400> 10
acacactcac ag   12

<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 11
ccagcatcga gaatcagtgt gacagt   26

<210> 12
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 12
actgtcacac tg   12

<210> 13
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 13
gtcgatgaac ttcgactgtc gatcgt   26

<210> 14
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized adaptor sequence.

<400> 14
acgatcgaca gt   12

<210> 15
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 15
tagtctacca ctgctcgact gtaacg   26

<210> 16

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<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 16
cagagtgaac ccagtggaca tatctg                                        26

<210> 17
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
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<400> 17
gttcccaagg aaagtgtcag agttgg                                        26

<210> 18
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 18
gaagctggaa agcctccagg tgttcc                                        26

<210> 19
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 19
ctccgagcag acaccatgac cttagc                                        26

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 20
aggagtaggg cttgtctccc aacctg                                        26

<210> 21
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.
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<400> 21
cactcctgtg tctagctgcc agatgc                                          26

<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 22
agtgcgaaca ccgtagtgct gacagg                                          26

<210> 23
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 23
gatgaagaag aaggagcaga gtcagg                                          26

<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 24
attcacttgc tctgactcca ggttgg                                          26

<210> 25
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 25
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<210> 26
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 26
tttggctgga aagggtgact ctgagg                                          26

<210> 27
<211> 26
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<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 27
tgctctcacc atccagatga ctcacc                                            26


<210> 28
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 28
tggaccatat ctgctgcaac tggtcc                                            26

<210> 29
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 29
tccagcagat gcaagaactc tcctcc                                            26

<210> 30
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An artificially synthesized primer sequence.

<400> 30
ttatggagcg gagcagcatt ccaagg                                            26
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